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Electron spin transport in graphene and carbon nanotubes

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List of Publications

- A. B. Kuzmenko, N. Tombros, H. J. A. Molegraaf, M. Grueninger, D. van der Marel, S. Uchida. *The c-axis optical sum rule and possible new collective mode in LSCO*, *Phys. Rev. Lett.* **91**, 037004 (2003).
- C. van der Marel, M. A. Verheijen, Y. Tamminga, R. H. W. Pijnenburg, N. Tombros, F. Cubaynes. *Thickness and composition of ultrathin SiO₂ layers on Si*, *Journal of Vacuum Science Technology* **22**, 1572-1578 (2004).
- N. Tombros, S. J. van der Molen, and B. J. van Wees. *Separating spin and charge transport in single-wall carbon nanotubes*, *Phys. Rev. B* **73**, 233403 (2006)
- S. J. van der Molen, N. Tombros, and B. J. van Wees. *Magneto-Coulomb effect in spin-valve devices*, *Phys. Rev. B* **73**, 220406 (2006)
- N. Tombros, C. Jozsa, M. Popinciuc, H. T. Jonkman, B. J. van Wees. *Electronic spin transport and spin precession in single graphene layers at room temperature*, *Nature* **448**, 571-574 (2007).
- N. Tombros, L. Buit, I. Arfaoui, Theodoros Tsoufis, D. Gournis, P. N. Trikalitis, S. J. van der Molen, P. Rudolf, B. J. van Wees. *Electronic measurements on a single superconducting tin nanowire encapsulated in a multiwalled carbon nanotube*, submitted to *Nanoletters*.
- N. Tombros, S. Tanabe, A. Veligura, C. Jozsa, M. Popinciuc, H. T. Jonkman, B. J. van Wees. *Anisotropic spin relaxation in graphene*, submitted to *Phys.*

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- C. Jozsa, M. Popinciuc, N. Tombros, H. T. Jonkman, B. J. van Wees. *Observation of carrier spin drift in graphene field effect transistors*, submitted to *Phys. Rev. Lett.*
- M. Popinciuc, C. Jozsa, N. Tombros, S. Tanabe, A. Veligura, H. T. Jonkman, B. J. van Wees. *Spin transport in graphene*, in preparation.